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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,307	10/29/2001		Josef Scharmuller	SCHARMULLER -1 PCT	4882
7	590 0	05/27/2003			
Collard & Roe				EXAMINER	
1077 Northern Boulevard Roslyn, NY 11576			ROYAL, PAUL		
				ART UNIT	PAPER NUMBER
				3611	
				DATE MAILED: 05/27/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action O	10/018,307	SCHARMULLER, JOSEF				
Office Action Summary	Examiner	Art Unit				
The MAIL NO DATE AND	Paul Royal	3611				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a repli within the statutory minimum of thirty (3 ill apply and will expire SIX (6) MONTH cause the application to become ABAN	by be timely filed 30) days will be considered timely. S from the mailing date of this communication.				
1)⊠ Responsive to communication(s) filed on 29 O	ctoher 2001					
	s action is non-final.					
3) Since this application is in condition for allowar		rs prospoution on to the movite in				
closed in accordance with the practice under E Disposition of Claims	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
4) Claim(s) 4-6 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>4-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>29 October 2001</u> is/are: a						
Applicant may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
11) ☐ The proposed drawing correction filed oni		pproved by the Examiner.				
If approved, corrected drawings are required in reply						
12) The oath or declaration is objected to by the Example 25 H.S.C. 25 440 and 1400	miner.					
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign p	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:	•					
1. Certified copies of the priority documents						
2. Certified copies of the priority documents		···				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)☐ Acknowledgment is made of a claim for domestic						
a) The translation of the foreign language provi	sional application has been	received.				
Attachment(s)	priority under 33 U.S.C. 99	120 and/or 121.				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	4) Interview Sumi 5) Notice of Inforr 6) Other:	mary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				
5. Patent and Trademark Office FO-326 (Rev. 04-01) Office Actio	n Summany	Port of Poper No. 7				

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DETAILED ACTION

Response to Amendment

- 1. The preliminary amendment filed on 29 October 2001 has been entered.
- 2. The information disclosure statement filed 29 October 2001 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because no translation of the foreign documents or statement of the relevancy of the documents has been provided. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any resubmission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).
- 3. Note EP 176825 has been considered using information from the DERWENT database.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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It is unclear which elements applicant considers the invention where applicant recites a variety of components such as a towing vehicle, trailer, coupling ball and ball socket but not all elements are shown. As best understood this application is drawn to the coupling device which is essentially the coupling ball 6 in combination with the moulded (molded) article 9, see Specification page 2 at "Best Realisation of Invention".

Further, the Specification states there is a "coupling device 5 with a coupling ball 6" and that the coupling ball 6 cooperates with a ball socket formed by a moulded article 9 made of steel. This makes the moulded article 9 seem to be separate from the coupling device 5. Since the Specification, as a whole, seems to present the moulded article 9 as part of the coupling device 5, in the interest of furthering prosecution on the merits of the application, the Examiner will assume the moulded article 9 and coupling ball together comprise the coupling device 5. To not do so would result in the coupling ball 6 being the only element identified as part of the coupling device 5 and the moulded article 9 not being consider a part of the coupling device 5 because it (the moulded article 9) was recited as cooperating with the coupling ball 6 of the coupling device 5 and therefore distinct from coupling device 5. Applicant is advised to more clearly distinguish the elements of the coupling device in the claims and in the Specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 4 & 6, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Coilbert et al. (US 6,113,125).

Coilbert et al. teaches a coupling device for a towing vehicle and a trailer, the coupling device comprising coupling ball (102) and a moulded article (101), having a ball socket (104) and a connecting plate (CPLATE, see Examiner's annotated Figure 2), said moulded article made of a ferrous material and presenting a casting crust at least on the interior of the socket, see claim 8.

Note it is well known that in the production of a cast steel moulded article (hitch coupler body) a crust forms during the casting process.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Coilbert et al. (US 6,113,125).

Coilbert et al., as applied to claim 4 teaches all the claim limitations except wherein the ball socket has a lesser hardness than the coupling ball.

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It is understood to be a design choice to use a ball socket Rockwell hardness

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which is less than the hardness of the coupling ball to selectively control wear.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Olsson teaches a crust forms during the process of casting ferrous metals. Arndt

teaches methods for surface treating ferrous materials. Herbenar teaches joint assembly.

Easterwood teaches a trailer tongue hitch and ball clamp. Hollis teaches a trailer coupling.

Denney et al. teaches a trailer hitch lock. Daniel teaches a gooseneck trailer hitch. Mannix (GB

2094250) teaches a ball and socket device.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Paul Royal whose telephone number is 703-308-8570. The examiner can

normally be reached on 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lesley Morris can be reached on 703-308-0629. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9326 for regular

communications and 703-872-9327 for After Final communications.

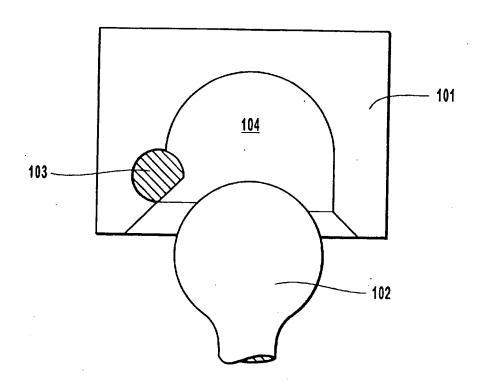
Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1113.

P. Royal May 19, 2003 Examiner
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Paul Royal

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600



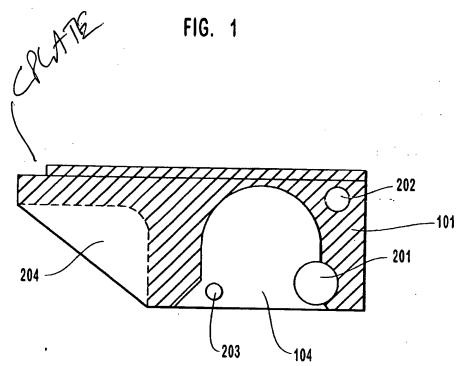


FIG. 2